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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Docket Number 273012010901 Application Number 10/026,980

Applicant:

David DOLPHIN et al.

Filing Date December 17, 2001

Group Art Unit 1743

(Use several sheets if necessary)

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U.S. PATENT DOCUMENTS

Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
1.	12/15/92	5,171,749	Levy et al.	514	D418_	
2.	05/1997	5,626,757	Armstrong	210	ESGEI	VED
	No.	No. 1. 12/15/92 2 05/1997	No. 1. 12/15/92 5,171,749 2. 05/1997 5,626,757	No. Detailed Detailed No.	No. 1. 12/15/92 5,171,749 Levy et al. 514	No. 1. 12/15/92 5,171,749 Levy et al. 514 410

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FOREIGN PATENT DOCUMENTS

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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
an	3.	05/1992	0485370	EP		FP21/64	
an	4.	06/1993	546916	EP	Bath ,	42/19/082	
CN	5.	05/1993	4136462	Germany	0713	57/08	<u> </u>

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title			
as	6.	Armstrong et al. Derivatized Cyclodextrins Immobilized on Fused-Silica Capillaries for Enantiomeric Separations Via Capillaries for Enantiomeric Separations Via Electrophoresis, Gas Chromatography, or Supercritical Chromatography. ANAL. CHEM. (1993) 65(8):1114-17			
an	7.	Aveline, B. M. et al., The Effects Of Aggregation, Protein Binding And Cellular Incorporation On The Photophysical Properties Of Benzoporphyrin Derivative Monoacid Ring A (BPDMA), J. PHOTOCHEM. PHOTOBIOL. BIOLOGY (1995) 30:161-69			
CN	8.	Beukeveld, G. J. J. et al., Determination Of Porphyrins In Bile Using High Performance Liquid Chromatography And Some Clinical Applications, EUR. J. CLIN. CHEM. CLIN. BIOCHEM. (1994) 32:153-59			
an	9.	Böeseken, J., The Use Of Boric Acid For The Determination Of The Configuration Of Carbohydrates, ADV. CARBOHYDR. CHEM. (1949) 32:153-59			
om	10.	Bowser, M. T. et al., Development And Application Of A Nonaqueous Capillary Electrophoresis System For The Analysis Of Porphyrins And Their Oligomers			

EXAMINER: (Il Reguerala

DATE CONSIDERED:

02/09/04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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PTO/SB/08 (2-92) Sheet 2 of 5 Docket Number 273012010901 Application Number 10/026,980 Form PTO-1449 INFORMATION DECLOSURÉ CITATION Applicant: David DOLPHIN et al. IN AN APPLICATION Group Art Unit 743 Filing Date December 17, 2001 Mailing Date May 3 , 2002 (Use several sheets if necessary) (including pulser PAPERS OTHER DOCUMENTS Title Examiner Ref. **Initials** No. (PHOTOFRIN), ANALYTICAL BIOCHEMISTRY (1996) 241:143-50 Bowser, M. T. et al., Quantitative Description Of Migration Behavior Of Porphyrins Based 11. On The Dynamic Complexation Model In A Nonaqueous Capillary Electrophoresis System, an **ELECTROPHORESIS (1997) 18:82-91** CAPLUS Abstract of Wu et al. Separation of Porphyrins Using A. Gamma. -Cyclodextrin 12. Stationary Phase, J. LIQ. CHROMOGR. (1994) 1795:1111-24 CAPLUS Abstract of Fanali et al. The Utility of Cyclodextrins in Capillary Electrophoresis. 13. J. CAPILLARY ELECTROPHOR. (1994) 1(1):72-78 an Chan et al. Capillary Electrophoresis Analysis of Polyhaematoporphyrin, A Photosensitizer 14. Used in Photodynamic Therapy. JOURNAL OF CHROMATOGRAPHY (1993) 636:171-(10) 178 Consden, R. et al., Ionophoresis Of Sugars On Paper And Some Applications To The 15. Analysis Of Protein Polysaccharide Complexes, NATURE (1952) 169:783-85 May 10, 1952 Delaney, T. F. et al., Photodynamic Therapy Of Cancer, COMPREHENSIVE THERAPY 16. (1988) 14 (5):43-55 (14 Dixon et al. Capillary Electrophoretic Separation of Cationic Porphyrins, HOURNAL OF 17. an CHROMATOGRAPHY A (1998) 802:367-380 Hjertén, S., Free Zone Electrophoresis, CHROMATOG. REV. (1967) 9:122-219 18. Ho, J. W. et al., Effects Of Injection Solvents On The Separation Of Porphyrin And 19. Metalloporphyrin In Reversed-Phase Liquid Chromatography, J. LIQ. CHROMATOGR. 09 (1994) 17(3):549-58 Hoffstetter-Kuhn, S. et al., Influence Of Borate Complexation On The Electrophoretic 20. Behavior Of Carbohydrates In Capillary Electrophoresis, ANAL. CHEM. (1991) 63:1541-CAM August C1, 1991 Honda, S. et al., Simultaneous Determination Of Reducing Monosaccharides By Capillary 21. Zone Electrophoresis As The Borate Complexes Of N-2-Pyridylglycamines, ANALYTICAL BIOCHEMISTRY (1989) 176:72-77

EXAMINER: al Mognerala

DATE CONSIDERED:

Honda, S. et al., Analysis Of The Oligosaccharides In Ovalbumin By High-Performance

Jamieson, C. H. M. et al., Preferential Uptake Of Benzoporphyrin Derivative By Leukemic

Capillary Electrophoresis, ANALYTICAL BIOCHEMISTRY (1990) 191:228-34

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Mailing Date May 1, 2002

		OTHER DOCUMENTS (including the Date, Perlinent Press, Etc.)
Examiner Initials	Ref. No.	Title OTHER DOCUMENTS (including Others, pittle, Date, Perindal Proces, Etc.)
,		Versus Normal Cells, LEUKEMIA RESEARCH (1990) 14(3):209-19
Gn	24.	Jorgenson, J. W. et al., Free Zone Electrophoresis In Glass Capillaries, CLIN. CHEM. (1981) 27(9):1551-53
Clu	25.	Kimmett, S. M. et al., Evidence For The Stereoselective Inhibition Of Chick Embryo Hepatic Ferrochelatase By N-Alkylated Porphyrins. II, MOLECULAR PHARMACOLOGY (1992) 42:307-10
CNn	26.	Landers, J. P. et al., Separation Of Boron-Complexed Diol Compounds Using High- Performance Capillary Electrophoresis, ANAL. CHEM. (1992) 64:2846-51 Nov. 15/1992
Chy	27.	Lim, C. K. et al., High-Performance Liquid Chromatography Of Porphyrins, J. CHROMATOGR. (1988) 429:123-53
an	28.	Liu, X. et al., Capillary Electrophoresis Enzyme Immunoassay For Digoxin In Human Serum, ANAL. CHEM. (1995) 67:3211-18 September 15, 1995
an	29.	Miller, H. et al., Photodynamic Therapy Of Subretinal Neovascularization In The Monkey Eye, ARCH. OPTHALMOL. (1993) 111:855-60
an	30.	Morin, P. et al., Borate Complexation Of Flavonoid-O-Glycosides In Capillary Electrophoresis, J. CHROMATOGR. (1993) 628:161-69 June January 01,1993
OM	31.	Neyndorff, H. C. et al., Development Of A Model To Demonstrate Photosensitizer-mediated Viral Inactivation In Blood, TRANSFUSION (1990) 30(6):485-90
an	32.	Owens, J. W. et al., Chromatographic Analysis Of Photodynamically Significant Porphyrin Dimers And Trimers, J. CHROMATOGR. B (1996) 682:327-36 12 July 1996
CM	33.	Peng, X. et al., Quantitative Description Of Analyte Migration Behavior Based On Dynamic Complexation In Capillary Electrophoresis With One Or More Additives, ELECTROPHORESIS (1997) 18:706-16
an	34.	Penn, S. G. et al., Capillary Electrophoresis With Chiral Selectors: Optimization Of Separation And Determination Of Thermodynamic Parameters For Binding Of Tioconazole Enantiomers To Cyclodextrins, ANAL. CHEM. (1994) 66:2866-73 Sept. 15, 1994
an	35.	Pietta, P. et al., Influence Of Structure On The Behavior Of Flavonoids In Capillary Electrphoresis, ELECTROPHORESIS (1994) 15:1326-31
an	36.	Richter, A. M. et al., Biodistribution Of Tritiated Benzoporphyrin Derivative (3H-BPD-MA),

EXAMINER: (16 Menerala

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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INFORMATION DISCIPLIFICATION IN AN APPLICATION

Docket Number 273012010901

Application Number 10/026,98

Applicant:

David DOLPHIN et al.

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Group Art Unit

(lise several sheets if necessary)

Mailing Date May 31, 2002

Richter, A. M. et al., Photosensitising Potency Of Structural Analogues Of Benzoporphyrin

Examiner Initials	Ref. No.	Title
		A New Potent Photosensitizer, In Normal And Tumor-Bearing Mice, J. PHOTOCHEM. PHOTOBIOL. B BIOLOGY (1990) 5:231-44 April 15, 1970
CM	37.	Richter, A. M. et al., Photosensitizing Efficiency Of Two Regioisomers Of The Benzoporphyrin Derivative Monoacid Ring A (BPD-MA), BIOCHEMICAL PHARMACOLOGY (1992) 43(11):2349-58
Cu	38.	Richter, A. M. et al., Preliminary Studies on a More Effective Phototoxic Agent Than Hematoporphyrin, J. NATL. CAN. INST. (1987) 79(6):1327-32
an	39.	Richter, A. M. et al., Characterization Of Benzoporphyrin Derivative, A New Photosensitizer, PROCEEDING SPIE, THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, BOSTON, MA (1988) 997:132-38

OTHER DOCUMENTS

Derivative (BPD) In A Mouse Tumour Model, BR. J. CANCER (1991) 63:87-93

41. Sato, H. et al., Simultaneous Separation And Quantification Of Free And Metal- Chelated Protoporphyrins In Blood By Three-Dimensional HPLC, CLIN. CHEM. (1994) 40(7):1239-44

Stalcup et al. Heparin: A Chiral Mobile-Phase Additive for Capillary Zone Electrophoresis.

ANALYTICALCHEMISTRY (1994) 66(19):3054-3059

43. Sternberg, E. et al., Pyrrolic Photosensitizers, CURRENT MEDICINAL CHEMISTRY

(1996) 3:239-72
 Udagawa, M. et al., Determination Of Coproporphyrin I And III Isomers By High-Performance Liquid Chromatography, J. CHROMATOGR. (1982) 233:338-42
 Walker, C. J. et al., The Magnesium -Protoporphyrin IX (Oxidative) Cyclase System,

Walker, C. J. et al., The Magnesium -Protoporphyrin IX (Oxidative) Cyclase System,
BIOCHEM. J. (1988) 255:685-92

Wallingford, R. A. et al., Retention Of Ionic And Non-Ionic Catechols In Capillary Zone

Electrophoresis With Micellar Solutions, J. CHROMATOGR. (1988) 441:299-309

Wan, J. R. et al., High Performance Liquid Chromatography Separation And Analysis Of Metallotetra (Pentafluorophenyl) Porpholactone, J. LIQ. CHROMATOGR. (1994) 17(9):2045-56

Weinberger, R. et al., Capillary Electrophoresis Of Urinary Porphyrins With Absorbance And Fluorescence Detection, J. CHROMATOGR. (1990) 516: 271-85 Sept. 07, 1990

EXAMINER: Olh Megula DATE CONSIDERED: 02/05/04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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ł		OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)
Examiner Initials	Ref. No.	Title
a.n	49.	Woodburn, K. W. et al., Evaluation Of Tumor And Tissue Distribution Of Porphyrins For Use In Photodynamic Therapy, BR. J. CANCER (1992) 65:321-28
an	50.	Wu et al. Recent developments in Porphyrin Separations Using Capillary Electrophoresis with Native Fluorescence Detection. JOURNAL OF LIQUID CHROMATOGRAPHY (1994) 1799:1917-1927
an	51.	Yao et al. Optimization of Separation of Porphyrins by Micellar Electrokinetic Chromatography Using the Overlapping Resolution Mapping Scheme. JOURNAL OF CHROMATOGRAPHY (1993) 637:195-200
an	52.	Yao, Y. J. et al., Determination Of Erythrocyte Porphyrins By Epi-Illumination Fluorescence Microscope With Capillary Electophoresis, J. LIQ. CHROM. & REL. TECHNOL. (1996) 19(1):1-15

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